

## ABSTRACT

In a transmission amplifier for amplifying a signal to be transmitted, an amplifying unit is warmed efficiently when temperature is low. In a constitution in which an amplifying unit 1 amplifies a signal, temperature detecting means 4 detects temperature. Amplifying-unit-self-heating-facilitation control means 2 and 5 perform control for facilitating self-heating by the amplifying unit 1 when temperature detected by the temperature detecting means 4 is lower than a predetermined threshold value or equal to or lower than the predetermined threshold value. The amplifying-unit-self-heating-facilitation control means 2 and 5 perform, for example, bias control for the amplifying unit 1 as the control for facilitating self-heating by the amplifying unit 1.